

The SeaQuest status

- (so far) unpolarized fixed-target Drell-Yan experiment:
 - a 120 GeV proton beam extracted from the MI and
 - a moving target table (liquid H and D, solid state nuclei)
- significant increase in physics reach:
 - unique access to sea quarks at high-x
 - What is the structure of the nucleon?
 - What is the structure of nucleonic matter?
- commissioning run 03/07/2012 04/30/2013
- waiting for beam ~ Mid August 2013

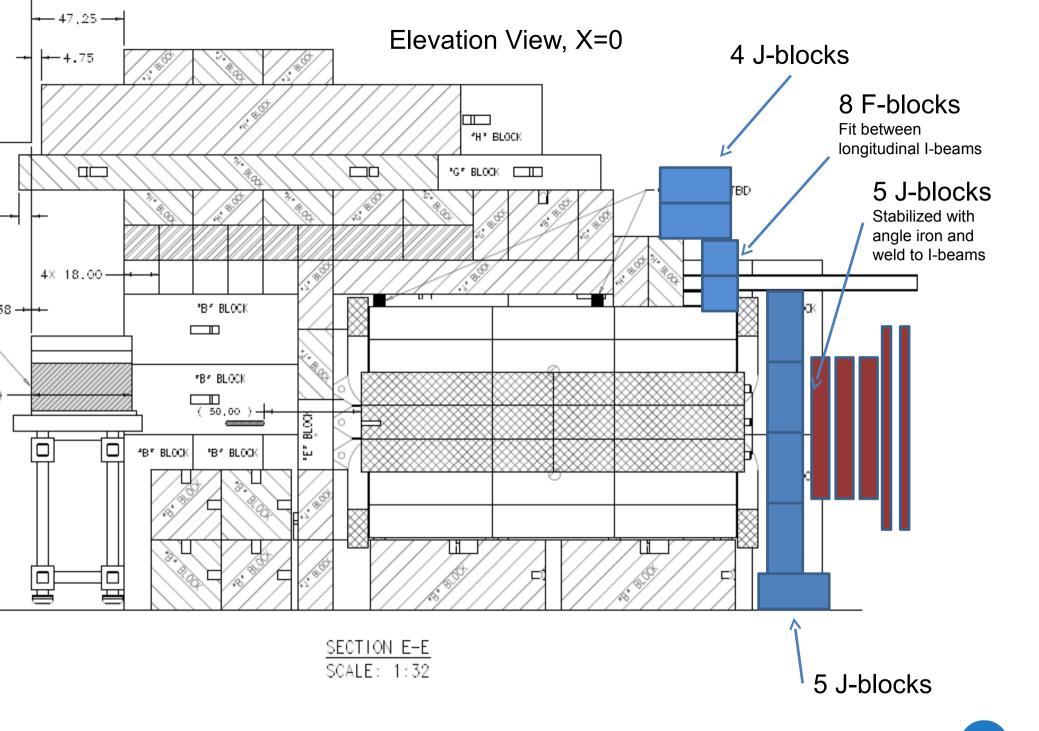
Beam Updates

sleeving the bermpipe:

- pipe out of 2205 stainless steel with 12" diameter
- waiting on steam cleaning the pipe
- next step: welding, availability of welders tbd

beam diagnostics:

- preparing for PCB fabrication
- next step: system integration with read-out software
- test of read-out electronics at MT3

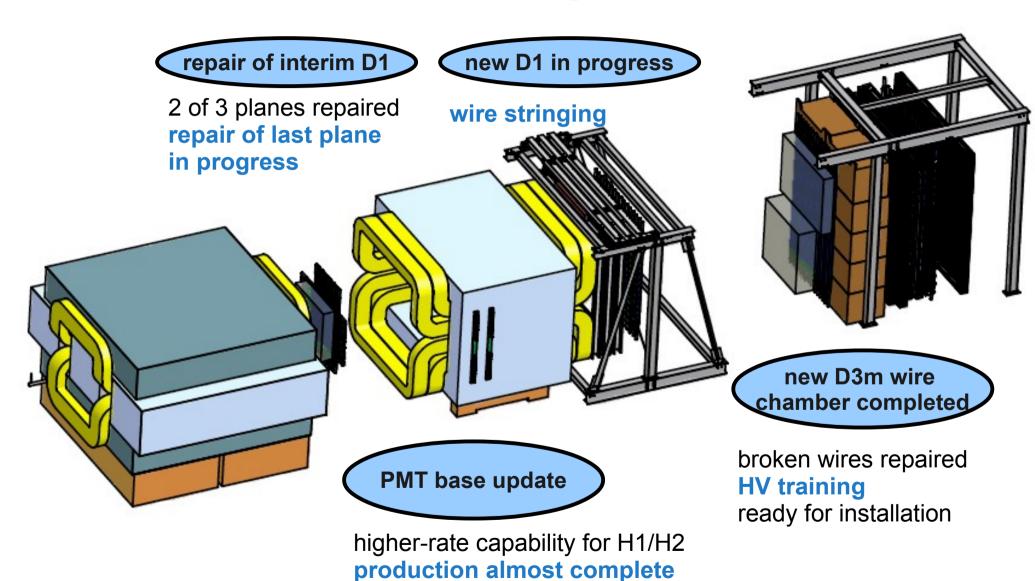


Target Updates



- two vacuum
 gauges on the
 Hydrogen
 system need
 to be replaced
- another cool down test of liquid H and D targets scheduled in July

Detector Updates



→ installation in June

DAQ: Improved TDC for Run II

TDC bin width ~0.44 ns **calibrated**

minimum width of signal 4 ns

maximum number of hits in 64 ns 4

adjustable time window (detector) 4ns - 2048ns

maximum number of hits per trigger 32 – 1024

multiple events per IRO 2 – 32 tested

scalar buffer 8 hits / channel

intrinsic zero suppression (multi-sampling) tested

multiple hits elimination tested

leading edge or leading / trailing edge detection

test with hodoscopes and proportional tubes

Run II TDC working

Trigger Updates

- trigger road generation:
 - realistic MC sample improved
 - trigger software suite progressing well
- pulser test proceeds well:
 - looking for any unwanted behavior from the trigger modules
- remaining trigger hardware ordered
- installing final trigger configuration in June and July